

Art – Low Resolution Video LED Displays

Data Sheet



Applications and Uses



Art[®] is a Low Resolution LED display system that accepts digital video to produce stunning large scale animated graphics and video.

Art uses ArtBoard[®] pcbs to build up freestyle video displays of virtually any size and in any layout imaginable. ArtFrame[®] sub-structure and diffuser system provides ease of installation and the accuracy needed for high quality results.

Together with Light Emissions Brain[®] processor, Art provides designers and facility owners with revolutionary and cost efficient solutions to integrating highest quality video graphics into the fabric of buildings and interior designs.

Uses

- Integrating into walls, ceilings and floors
- Museums, Science Centers
- Retail, Malls, Restaurants
- Corporate, Exhibitions
- Theme Parks, Cruise Ships
- Interior Design

Overview

- Two resolutions; 37mm and 75mm
- High power and full colour LEDs
- Full speed digital video input
- Ease and speed of installation with power and data indicators on each ArtBoard
- ArtFrame[®] sub-structure and diffuser system

Features¹

- Mixed resolutions in same display
- Brightness control on pcb and global level
- Ambient Brightness Regulation
- Emergency ON state
- Loss of Input state
- Internal Video
- Gamma Correction
- 48 bit colour depth

¹ Features available as staged releases to be announced

ArtBoard Technical Data

	ArtBoard 37	ArtBoard 75
Physical		
Pixel Pitch	37mm	75mm
Pixel Layout on Board	8 x 8	4 x 4
Full Board Dimensions	290mm x 290mm, mounted on 300mm pitch	
PCB corner / mid Bezels	15mm	30mm
Optical		
Resolution	711 px/m ²	
Colours	16 million, 24 bit colour	178 px/m ²
LED refresh rate	300 Hz	
Luminescence 100% white	1600 nits	
Color depth	16-bit R, G, B, total 48-bit	
Electrical		
Power per pcb	18W	5W
Power per m ²	200W	55W
Voltage input	5 – 24V	
PCB power wiring	<i>Two wires for +V and ground. Daisy Chain between pcbs up to max 12A per daisy chain</i>	
PCB power input connector	<i>Two part screw terminal. Wire size up to 4mm²</i>	
ArtBoard Data		
Display Data Source	Brain video processor	
PCB Data wiring	Cat5e UTP	
PCB Data input/loop-out	RJ45	
Brain video processor		
Producer [®]	PC program for system set-up, control and back-up	
Video input	DVI-D up to 1920 x 1200 resolution	
Max System Latency	2 frames	
Max No. Pixels	19,600	
Video input connections	2 x DVI-D input and loop-out connectors	
Display connections	2 x RJ45 for to and return from the display	
Control connections	USB-A on front panel, USB-B on rear panel	
Other	DB-9 connector for:-	
	<ul style="list-style-type: none"> • Ambient Brightness Regulation • External ON • Internal Video control 	

